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| LECTED OFFICE (DO/EO/US) | U.S. Application No. (If known, see 37 C.F.R. 1.5) | | | | |
| International Filing Date | Priority Date Claimed | | | | |
| 12 October 1995 | 12 October 1994 | | | | |
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| ELECTING AUDIO AND VIDEO INFORMATION A | ND METHOD IMPLEMENTED BY SAID SYSTEM | | | | |
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| ement under 37 CFR 1.97 and 1.98. ecording. A separate cover sheet in compliance with | n 37 CFR 3.28 and 3.31 is included. | | | | |
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08/817438

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of

NATHAN et al Atty. Ref.: 871-36

Serial No. (To Be Assigned) Group:

Filed: 11 April 1997 Examiner:

For: SYSTEM FOR DISTRIBUTING AND SELECTING AUDIO

AND VIDEO INFORMATION AND METHOD

IMPLEMENTED BY SAID SYSTEM

April 11, 1997

Honorable Commissioner of Patents and Trademarks Washington, DC 20231

PRELIMINARY AMENDMENT

Sir:

In order to place the above-identified application in better condition for examination, please amend the above-identified application as follows:

IN THE CLAIMS:

Claim 3, line 2, delete "or 2".

Claim 5, line 2, change "one of claims 1 through 3" to -- Claim 1 --.

Claim 7, line 2, change "claims 5 or 6" to -- Claim 5 --.

Claim 8, line 2, change "one of claims 5 through 7" to -- Claim 5 --.

Claim 9, line 2, change "one of the preceding claims" to -- Claim 1 --.

REMARKS

The above amendments are made to place the claims in a more traditional

NATHAN et al Serial No. (To Be Assigned)

format.

Respectfully submitted,

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08/817438

System for distributing and selecting audio and video information and method implemented by said system

This invention relates to a system for distributing and selecting audio or video information on a network and the method implemented by this system.

British patent 2166328 discloses a device which distributes audio or video information over a coaxial cable network requiring a specific bus of the ISDN type comprising a telephone network and a communications bus for the other devices, with said communications bus containing remote control boxes, each linked to an adapter device connected to the bus.

A network such as this has the drawback that it requires wiring of several networks, first coaxial type wiring, second wiring for the ISDN-type telephone network, and finally third wiring for the communications control bus.

Another patent application, European patent no. 140493, circumvents these drawbacks by using only the coaxial network to distribute audio information originating from a jukebox unit, using on the cable network at least one channel allocated to transmission of audio information. This channel is divided into subchannels and each audio selection is frequency-multiplexed. Thus 75 to 200 audio channels are sent over a video channel with a bandwidth of 6 MHz. A conversion box makes it possible to select each of the subchannels and thus for the user to hear the song carried by this subchannel. The drawback of a system such as this is that the user cannot determine the beginning and the end of the song, since all the selections are played without interruption, and the waiting time can be up to 30 seconds. Another drawback of this system

design is that it is not possible to simultaneously transmit video and audio information. In fact, in order to transmit video information the primary carrier of each channel must be taken, and in this case, per channel it will no longer be possible to transmit more than one video information item associated with one or two audio information items of acceptable quality, among which one of these two audio information items corresponds to the one associated with the video information. Thus, in order to transmit video information corresponding to 200 selections, the saturation point will soon be reached and all available channels will be occupied. In this case, transmission of television channels will no longer be possible and in any case the number of audio information items will be less than 10.

The object of the invention is therefore to devise a system for distributing and selecting audio or video information on a coaxial cable network without hindering distribution of television programs on this cable network and while simultaneously allowing distribution of video data corresponding to selections available on a jukebox unit. The object of the system is also to allow interactive communication between the user and the available selections without having to specially wire the premises equipped with the system by using networks which would normally already exist on the premises.

This object is achieved in that the system for distributing and selecting audio and video information over a coaxial cable network having in association a jukebox unit connected by a modulator to this cable television distribution network is characterized by its including a channel allocated for the transmission of audio or video information;

means for interacting with the television for remote selection

of at least one audio or video information item from the plurality of information items to be transmitted over the cable network;

means for identifying the selection means or the television set linked to the selection means;

means of billing the user linked to a television set for the selections made.

According to another feature, the selection means are comprised of the telephone network and the connected exchange of the PAEX type which delivers to the interface of the jukebox voice frequency signals used by interface software incorporated in the jukebox to interpret the pushing of buttons on a telephone set as mouse events affecting movement of a cursor on screen windows for guiding the user, said signals also containing identification information.

According to another feature, voice assistance means are provided to guide the user in pushing the telephone set buttons.

According to another feature, the selection means are comprised of a control means connected by the electrical network to an appropriate interface of the jukebox, said interface and selection means both operating on the principle of carrier streams to transmit a piece of identification information and control data corresponding to the pushing of control buttons.

According to another feature, the jukebox has mass storage means, a primary processor operating a multitask system, a video controller circuit and an audio controller circuit belonging to the cable network, said video and audio controller circuits being connected to an RF radio frequency modulator and an input and output interface for the remote selection means.

According to another feature the jukebox has a touch screen and an interface specific to the touch screen, an audio controller circuit and a video controller circuit of a display device belonging to the jukebox.

According to another feature the jukebox has money changing means.

According to another feature the billing means use a database in the jukebox by linking the selected title to the selection cost and by delivering to a billing system a user identifier and the amount to be billed to him.

According to another feature of the invention the television screen enables display of a title selection menu allowing selections to be made either by direct access to the title or the performer, or by category and selection from a list of the category.

Another object of the invention is a process for using a distribution and selection system which does not require wiring.

This object is achieved in that the method for using a system for distributing and selecting audio or video information is comprised of a television cable distribution network connected via an RF modulator and an audio controller card and a video controller card to a jukebox unit, said jukebox unit being in turn connected to another network, either by telephone or electrically by an interface, said method being comprised of the following stages:

- sending of an identifier from the premises associated with the television set either by telephone line or by remote control;
- a stage of audio or video information selection to be executed on the network by using a keyboard and an interface which interprets pushing of the keys as cursor movements;

- a stage wherein the order of selection and playing of the audio or video information is queued on the jukebox;
- a stage wherein this information is sent over the cable network;
- a stage wherein once the selection has been validated, information relating to user identification and selection cost is sent to a billing system.

Other advantages and features of the invention will be discussed in the description below, with reference to the attached drawings, in which:

Figure 1 shows a schematic of the network for distributing audio or video information:

Figure 2 shows a diagram of the circuits which comprise the jukebox of the invention;

Figure 3 shows the organization of the multitask system which manages all the hardware and software means;

Figure 4 shows a flowchart which describes how the multitask operating system functions;

Figure 5 shows a flowchart of verification of task activity; Figure 6 shows the flowchart which describes task gueuing.

Figure 7 shows a second embodiment of the network according to the invention.

The invention shown in Fig. 1 constitutes jukebox unit (1) located in premises (Z1). This jukebox unit (1) is connected to radio frequency modulator (9) which is connected to coupler circuit C via a coaxial cable. Coupler circuit C via coaxial cable supplies distributors R which in turn are connected by coaxial cables to television sets (TV1, TV2, TV3, TV4). The coupler also

receives on another of its inputs, via coaxial cable, a radio frequency source feed allowing distribution of ordinary television Televisions are located in area (Z2) where each television is installed, for example, in a room. Television (TV1) is installed in the room (CH1) and this room (CH1) has a telephone set (T1) connected by a line to telephone exchange (10) of the PABX This exchange (10) is in turn connected to a billing computer. Finally, exchange (10) is connected to an appropriate interface of jukebox (1). Each room (CH2, CH3, CH4) which has television set (TV2, TV3, TV4) also has an associated telephone set (T2, T3, T4). Jukebox unit (1) is comprised of a central microprocessor unit CPU which is a high-performance PC-compatible system, the choice for the embodiment having fallen on an Intel 80486 DX/2 system which has storage means and the following characteristics.

- compatibility with the local Vesa bus,
- processor cache memory: 256 kO,
- high performance parallel and serial ports,
- SVGA-type microprocessor graphics adapter
- type SCSI/2 bus controller.
- 32 MO battery backed-up static RAM.

Any other central processor with equivalent or better performance can be used in the invention.

This central processor unit controls and manages audio control circuit (5), telecommunications control circuit (4), input control circuit (3), mass storage control circuit (2) and display means

control circuit (6). The display means consist essentially of 14 or 15 inch (35.56 cm) flat screen video monitor (62) without interleaving of the SVGA type, with high resolution and low radiation, which is used for image reproduction (for example, the covers of the albums of the musical selections), graphics or video clips.

Mass storage means (21) using high-speed, high-capacity SCSItype hard disks are connected to the storage means already present in the microprocessor device. These means are used to store digitized and compressed audiovisual information.

High-speed telecommunications modem adapter (41) of at least 28.8 Kbps is integrated to allow connection to a network for distribution of audiovisual information controlled by a central server.

The central processing unit (CPU) also controls and manages video controller circuit (7) connected by its output V2 to radio frequency modulator (9) which is also connected to an audio output of audio control circuit (5) which is independent of volume, tone and balance controls.

To reproduce audio data of musical selections, the system has loudspeakers (54) which receive the signal of an amplifier-tuner (53) linked to electronic circuit (5) of the music synthesizer type intended to support a large number of input sources while providing one output with CD (compact disk)-type quality, such as for example the microprocessor multimedia audio adapter of the "Sound Blaster" card type SBP32AWE by Creative Labs Inc to which two memory buffers (56, 57) are added for a purpose described below.

Likewise the display means control circuit also has two buffer memories (66, 67) for a purpose described below.

Likewise additional video controller circuits (7) use these buffer (66, 67) circuits to transfer data between the hard disk and coaxial cable network.

A ventilated, thermally-controlled power supply of 240 watts delivers power to the system. This power supply is protected from surges and harmonics.

The audiovisual reproduction system manages via input controller circuit (3) an "Intelli Touch" 14-inch (35.56 cm) touch screen (33) from Elo Touch Systems Inc. which includes a glass coated board using "advanced surface wave technology" and an AT type bus controller. After having displayed on video monitor (62) or television screen (61) various selection data used by the customers, this touch screen allows management command and control information used by the system manager or owner to be displayed as well. It is likewise used for maintenance purposes in combination with external keyboard (34) which can be connected to a system which has a keyboard connector for this purpose, controlled by key lock (32) via interface circuit (3).

Input circuit (3) likewise interfaces with the system remote control set (31) composed for example of:

- an infrared remote control from Mind Path Technologies Inc., an emitter which has 15 control keys for the microprocessor system and 8 control keys for the projection device.
- an infrared receiver with serial adapter from Mind Path Technologies Inc.

A fee payment device (35) from National Rejectors Inc. is likewise connected to input interface circuit (3). It is also possible to use any other device which allows receipt of any type of payment by coins, bills, tokens, magnetic chip cards or a combination of means of payment.

To house the circuits, each device has a chassis or frame of steel with external customizable fittings.

Besides these components, microphone (55) is connected to audio controller (5) of each device; this allows its conversion into a powerful public address system or possibly a karaoke machine. Likewise a wireless loudspeaker system can be used by the system.

Remote control set (31) allows the manager, for example from behind the bar, to access and control various commands such as:

- microphone start/stop command,
- loudspeaker muting command,
- audio volume control command;
- command to cancel the musical selection being played.

Two buffers (56, 57) are connected to audio controller circuit (5) to allow each to store information corresponding to a quarter of a second of sound in alternation. Likewise two buffers (66, 67) are linked to each video controller circuit (6), each of which is able to store a tenth of a second of video each in alternation. Finally, respective buffer (46, 36, 26) is linked to each of the circuits for the communications controller (4), input interface (3), and storage (2).

The system operating software was developed around a library of tools and services largely oriented to the audiovisual domain in a multimedia environment. This library advantageously includes a powerful multitask operating system which effectively authorizes simultaneous execution of multiple fragments of code. This operating software thus allows concurrent execution—in an orderly manner and avoiding any conflict—of operations carried out on the display means or audio reproduction means as well as management of the telecommunications lines via the distribution network. In addition, the software has high flexibility.

The digitized and compressed audiovisual data are stored in storage means (21).

Each selection is available in two digitized formats: with hifi quality or CD quality.

The multitask operating system is the essential component for allowing simultaneous execution of multiple code fragments and for managing priorities between the various tasks which arise.

This multitask operating system is organized as shown in Figure 3 around a kernel comprising a module (11) for resolving priorities between tasks, task scheduling module (12), module (13) for serialization of material used, and process communications module (14). Each of the modules communicates with applications programming interfaces (15) and database (16). There are as many programming interfaces as there are applications. Thus, module (15) includes first programming interface (151) for key switch (32), second programming interface (152) for remote control (31),

third programming interface (153) for touch screen (33), fourth programming interface (154) for keyboard (34), fifth programming interface (155) for payment device (35), sixth programming interface (156) for audio control circuit (5), seventh programming interface (157) for video control circuit (6), eighth interface (159) for the video control circuit of the cable network and last interface (158a) for telecommunications control circuit (4) and (158b) for PABX communications control circuit (10).

Five tasks with a decreasing order of priority are managed by the kernel of the operating system, the first (76) for the video inputs/outputs has the highest priority, the second (75) of level two relates to audio, the third (74) of level three telecommunications, the fourth (73) of level four to interfaces and the fifth (70) of level five to management. These orders of priority will be considered by priority resolution module (11) as and when a task appears and disappears. Thus, as soon as a video task appears, the other tasks underway are suspended, priority is given to this task and all the resources are assigned to the video At the output, video task (76) is designed to unload the video files from mass memory (21) alternatively to one of two buffers (66, 67) while the other buffer (67 or 66 respectively) is used by video controller circuit (6) to produce the display after decompression of data. At the input, video task (76) is designed to transfer data received in telecommunications buffer (46) to mass memory (21). It is the same for audio task (75) on the one hand at

the input between telecommunications buffer (46) and buffer (26) of mass memory (21) and on the other hand at the output between buffer (26) of mass memory (21) and one of two buffers (56, 57) of audio controller circuit (5).

Task scheduling module (12) will now be described conjunction with Figure 4. In the order of priority this module performs a first test (761) to determine if the video task is active, i.e, if one of video buffers (66, 67) is empty. case of a negative response the task scheduling module passes to the following test which is second test (751) to determine if the audio task is active, i.e, if one of buffers (56, 57) is empty. the case of a negative response third test (741) determines if the communication task is active, i.e., if buffer (46) is empty. After a positive response to one of the tests, task scheduling module (12) at stage (131) fills memory access request queue (13) and at stage (132) executes this request by reading or writing between mass storage (21) and the buffer corresponding to the active task, loops back to the first test. When test (741) communications activity is affirmative, scheduler (12) performs test (742) to determine if it is a matter of reading or writing data in the memory. If yes, the read or write request is placed in a queue at stage (131). In the opposite case, the scheduler determines at stage (743) if it is transmission or reception and in the case of transmission sends by stage (744) a block of data to In the case of reception the scheduler the central server. verifies at stage (746) that the kernel buffers are free for access and in the affirmative sends a message to the central server to accept reception of a data block at stage (747). After receiving a block, an error check (748) of the cyclic redundancy check (CRC)

type is executed. The block is rejected at stage (740) in case of error, or accepted in the opposite case at stage (749) by sending a corresponding message to the central server indicating that the block bearing a specific number is rejected or accepted, then loops back to the start tests. When there is no higher level task active, at stage (731 or 701) the scheduler processes interface or management tasks.

Detection of an active task or ready task is done as shown in Figure 5 by a test respectively (721 to 761) on each of the respective hardware or software buffers (26) of the hard disk, (36) of the interface, (46) of telecommunications, (56 and 57) of audio, (66 and 67) of video which are linked to each of respective controller circuits (2, 3, 4, 5, 6) of each of the hardware devices linked to central unit (1). Test (721) makes it possible to see whether the data are present in the input and output buffer of the disk, test (731) makes it possible to see whether data are present in the hardware or software buffers of the customer interface device, test (741) makes it possible to see whether data are the software or hardware buffers telecommunications device, test (751) makes it possible to determine whether data are present in the hardware or software buffer for direction, and test (761) makes it possible to see whether data are present in the hardware or software buffers of the video device. If one or more of these buffers are filled with data, scheduler (12) positions the respective status buffer or buffers (821) for the hard disk, (831) for the interface, (841) for telecommunications, (851) for audio, (861) for video corresponding to the hardware in a logic state indicative of the activity. the opposite case the scheduler status buffers are returned at

stage (800) to a value indicative of inactivity.

The operating status of the system is kept on the hard disk.

Each time a notable event occurs, the system immediately registers it on the disk.

Thus, in the case in which an electrical fault or hardware failure occurs, the system will accordingly restart exactly at the same location where it had been interrupted.

Events which trigger back-up of the operating status are:

- insertion of money (crediting);
- addition of a selection to the queue;
- end of a selection (change from the selection currently being played).

The file is then in a machine format which can only be read by the unit and does not occupy more than 64 octets.

The number and type of active tasks is indicated to scheduler (12) by execution of the selection management module SPMM whose flowchart is shown in Figure 6. The management exercised by this module begins with test (61) to determine if selections are in the queue.

Consequently, if test (61) on the queue determines that selections are waiting, when a customer chooses a title he wishes to hear, it is automatically written in a queue file of the system on the hard disk.

Thus, any selection made will never be lost in case of an electrical failure. The system plays (reproduces) the selection in its entirety before removing it from the queue file.

When the selection has been reproduced in its entirety, it is removed from the queue file and written in the system statistics file with the date and time of purchase as well as the date and time at which it was played.

Immediately after transfer of the completed selection to the statistics file, the device checks if there are others in the queue file. If there is another, the device begins immediately to play the selection.

The total time elapsed between the end of one selection and the beginning of the next one is less than 0.5 seconds.

It is possible to extend this delay using a button located in the system control panel.

Processing continues with test (65) conducted to determine if the selection contains an audio scenario. If yes, at stage (651) this scenario is written in the task queue of scheduler (12). no, or after this entry, processing is continued by test (66) to determine if the selection contains moving images. If yes, the video scenario is written at stage (661) in the task queue of scheduler (12). If no or if yes after this entry, processing is continued by test (64) to determine if the selection contains still graphics. If yes, at stage (641) this graphic presentation scenario is written in the task queue of scheduler (12). If no or if yes after this entry, processing is continued by test (63) to determine if the selection contains an advertising scenario. If yes, at stage (631) the scenario is written in the task queue of scheduler (12). Thus scheduler (12) notified of uncompleted tasks can manage the progression of tasks simultaneously.

Due on the one hand to the multitask management mode and on the other to the presence of hardware or software buffers assigned to each of the tasks to temporarily store data, it is possible to add management tasks of the video control modules for the coaxial network and of an interface with the telephone exchange on the premises without having to fundamentally modify functioning of a jukebox according to the invention. Moreover, operation of the telephone network in association with operation of the coaxial cable network on the premises makes it possible to broadcast music by the method according to the invention without having to make major modifications to the wiring on the premises and in the device allowing installation of the system.

In fact, in operation, a user, for example in room CH1, will take his set T1 and call a certain number corresponding to a imaginary room number allocated for use and selection of information to be broadcast on the coaxial network. When the PABX recognizes this number it sends a signal to interface (8) of jukebox (1) which triggers a task of selection of audio and video pieces to be broadcast. This selection task triggers transmission over the coaxial network of information which allows display corresponding to presentation windows which have selection boxes activated by a cursor moved by the actuation of certain buttons on the telephone. A software interface interprets the voice frequencies of the telephone buttons pressed to convert them into mouse events which can be interpreted by the operating system of the jukebox in such a way as to cause in association with these pushed buttons the movement of a marker on the windows shown on the television screens. This marker is moved on selection validation buttons in order to confirm the selection by pushing a button on the telephone keyboard specific to this action. The selection made

by the user in this way in his room using the telephone and television screen, will be taken into account in the jukebox request queue just as the other selections made on the touch screen of the jukebox and will be interpreted and sent over the cable network when the time comes in order to be broadcast over all the television receivers in the building. In addition, telephone communication the PABX exchange sent identification number to the jukebox. This latter sends via the PABX to the billing system the room number and cost of the selection(s) made so that the user can be billed directly for the musical or video pieces he has chosen.

Finally, the device shown in Fig. 7 is another embodiment of this invention featuring the cable network with its distributors (R), its coupler (C) and its different television sets (TV1, TV2), connected by coupler (C) to a radio frequency modulator (9) which in turn is connected to the stereo, audio and video output (V2) of jukebox (1). Jukebox (1) has interface (81) connected to box (82) plugged into the power grid. This box (82) is intended to extract from the current the control data which are superimposed on the carrier current. These control data are transmitted by control box (83) which in turn is connected to the grid by an electrical socket. The control box has either a mouse-type device or a trackball or joystick with a validation button to activate each time the presentation button of the screen on which the cursor or marker is moved via the movement component of the joystick, trackball or mouse type.

Any modification by one skilled in the art is likewise part of the invention.

CLAIMS

- 1. System for distributing and selecting audio and video information on a coaxial cable network comprising in association jukebox unit (1) connected by modulator (9) to this cable television distribution network, characterized in that it includes a channel allocated for the transmission of audio or video information;
- means (T1, 83) for interacting with the television for the remote selection of at least one audio or video information item from the plurality of information items to be transmitted over the cable network by this channel;

means for identifying the selection means or the television set connected to the selection means;

user billing means linked to a television set for the selections made. $\ensuremath{\mathsf{E}}$

- 2. System for distributing and selecting audio and video information according to claim 1, wherein the selection means are composed of telephone network (T1) and associated exchange (10) of the PABX type which delivers to interface (8) of the jukebox voice frequency signals used by interface software incorporated into jukebox (1) to interpret the pushing of buttons on telephone set (T1) as mouse events affecting movement of a marker on screen windows for guiding the user, said signals also containing identification information.
- 3. System for distributing and selecting audio and video information according to claim 1 or 2, wherein voice assistance means guide the user in pushing the buttons of telephone set (T1).

- 4. System for distributing and selecting audio and video information according to claim 1, wherein the selection means are comprised of control means (83) connected by the electrical network to appropriate interface (81) of the jukebox, said interface and selection means both operating on the principle of carriers to transmit a piece of identification information and control data corresponding to the pushing of control buttons.
- 5. System for distributing and selecting audio and video information according to one of claims 1 through 3, wherein the jukebox has mass memory means (21), a main processor operating a multitask system, video controller circuit (7) belonging to the cable network, said video controller circuit and audio controller card (5) being connected to radio frequency modulator (9) and output/input interface (8) for the remote selection means.
- 6. System for distributing and selecting audio and video information according to claim 5, wherein the jukebox has touch screen (33) and interface (153) specific to the touch screen, audio controller circuit (5) and video controller circuit (6) of a display device belonging to the jukebox.
- 7. System for distributing and selecting audio and video information according to claims 5 or 6, wherein jukebox (1) has money changing means (35).
- 8. System for distributing and selecting audio and video information according to one of claims 5 through 7, wherein the billing means use a database of the jukebox which links the

selected title to the selection cost and delivers to a billing system a user identifier and the amount to be billed to him.

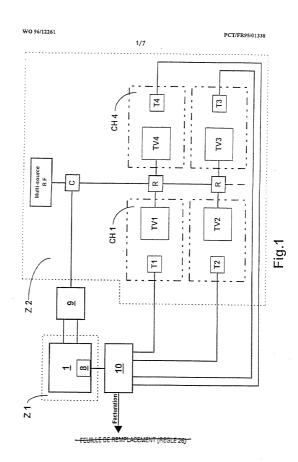
- 9. System for distributing and selecting audio and video information according to one of the preceding claims, wherein the television screen enables display of a title selection menu allowing selections to be chosen either by direct access to the title or the performer, or by category and selection from a list of the category.
- 10. Method for using a system for distributing and selecting audio and video information comprised of a television cable distribution network connected via an RF modulator and an audio controller card and a video controller card to a jukebox unit, said jukebox unit being in turn connected to another network, either by telephone or electrically, by an interface, wherein said method includes the following stages:
 - sending of an identifier of the premises linked to the television set either by telephone line or by remote control;
 - a stage of selection of audio or video information to be executed on the network by use of a keyboard and an interface which interprets pushing of the keys as cursor movements;
 - a stage wherein the order of selection and execution of the audio or video information is queued on the jukebox;
 - a stage wherein this information is sent over the cable network;
 - a stage wherein once the selection has been validated, information relating to user identification and selection cost is sent to a billing system.

APPROVED O.G. FIG.

BY CLASS SUBCLASS

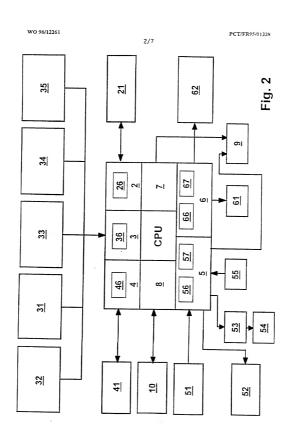
DRAFTSMAN

Figure 1. Replacement page (Regulation 26)
Multi-source RF = radio frequency mulitsource
Facturation = billing



APPROVED O.G. FIG.
CLASS SUBCLASS
DRAFTSMAN

Figure 2. Replacement page (Regulation 26)



APPROVED O.G. FIG.

BY CLASS SUBCLASS

DRAFTSMAN

Figure 3. Replacement page (Regulation 26)

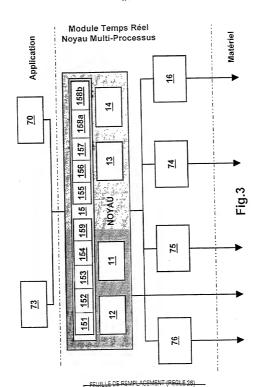
Module temps reel = real time module

Noyau multi-processus = multiprocessing kernel

Materiel = hardware

Noyau = kernel

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HERATING ARREST

Figure 4. Replacement page (Regulation 26)

DEBUT - start

non - no; oui - yes

Erreur - error

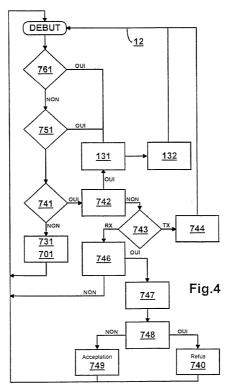
Acceptation - acceptance

Refus - rejection

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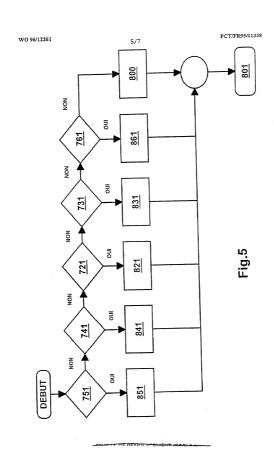


- FEUILLE DE REMPLACEMENT (REGLE 26)

APPROVED O.G. FIG.
BY CLASS SUBCLASS

PRAFTSMAN

Figure 5. Replacement page (Regulation 26)
DEBUT - start
non - no; oui - yes



TOOLYTE ALTERY

Figure 6. Replacement page (Regulation 26)

DEBUT - start

FIN - end

oui = yes

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PCT/FR95/01338

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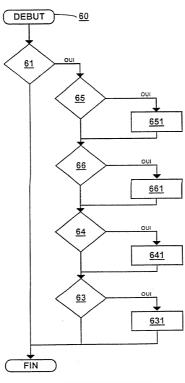


Fig.6

FEUILLE DE REMPLACEMENT (REGLE 26)

13017738 . 1311297

Figure 7. Replacement page (Regulation 26) Facturation = billing

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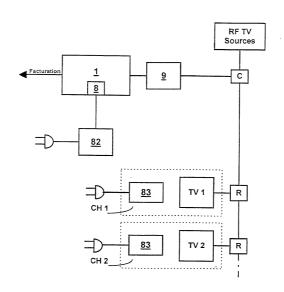


Fig.7

RULE 63 (37 C.F.R. 1.63) DECLARATION AND POWER OF ATTORNEY FOR PATENT APPLICATION

Nixon & Vanderhye P. C. (12/95) TTO7 %71.36

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

As a below named inventor, I hereby declare that my residence, post office address and clitzenship are as stated below next to my name, and I believe I am the original first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitle:

SYSTEM FOR DISTRIBUTING AND SELECTING AUDIO AND VIDEO INFORMATION AND METHOD IMPLEMENTED BY SAID SYSTEM

| is attached hereto | neck applicable box(s)). | | | | |
|---|---|---|---|--|---|
| X was filed on | 11 April 1997 | | ial No. (To Be Assigned) | | (Atty Dkt. No. 871-36). |
| a n d (if applicable to U.S. | rnational application No. | | 5/01338 on _ | 12 Octo | ober 1995 |
| hereby state that I have rev referred to above. I acknow hereby claim foreign priority identified below any foreign priority is claimed, before the | iewed and understand the ledge the duty to disclose benefits under 35 U.S.C. application for patent or it is filing date of this application. | e contents of the above in einformation which is ma . 119/365 of any foreign a nventor's certificate havin | terial to the patentability of the application(s) for patent or in | nis application in accord | lance with 37 C.F.R. 1.56. I d below and have also |
| Prior Foreign Application(s): | | 0 | | | D (M (1) (M Fill |
| Application Number PCT/FR94/01185 | | | intry IPO | | Day/Month/Year Filed 12 October 1994 |
| I hereby claim the benefit un Application Number | der 35 U.S.C. §119(e) of | | sional application(s) listed be n/Year Filed | elow. | |
| I hereby claim the benefit un subject matter of each of the 112 acknowledge the duty the national or PCT internati | e claims of this application to disclose material infor onal filing date of this app | n is not disclosed in such mation as defined in 37 (| prior applications in the ma | nner provided by the fir | st paragraph of 35 U.S.C. of the prior applications and |
| Prior U.S./PCT Application Application Serial No. | ı(s): | Day/Monti | /Year Filed | | Status: patented, pending, abandoned |
| PCT/FR94/01185 | | 12 Octo | ber 1994 | | Pending |
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| (Zip Code) | | | | | |
| (Zip Oode) | | | *************************************** | | |
| FOR ADDITIONAL INVENT | ORS, check box | and attach sheet with | same information and sig | gnature and date for e | each. |